

# Curriculum

ECTS subject code **T MEHSE №**

- **T** – type of course: **B** for BEng, **M** for MEng;
- **MEHSE** – for Mechatronics
- **№** – subsequent number of the subject;

lectures (L), tutorials (Tut), labs (Lab), Self-Study (SS) weekly;

exam (E), continuous assessment (CA), semester project (SP) / semester assignment (course work) (SA)

No	Subject	Week load						Assessment				ECTS subject code	ECTS credits
		L	Tut	Lab	Aud. Total	SS	Total	E	CA	SP	SA		

## SEMESTER I

1	Computer Integrated Design	2	0	2	4	5	9	1		1		MMEHSE01	5
2	Dynamics in Mechatronic Systems	2	0	2	4	5	9	1				MMEHSE02	5
3	Information Systems in Mechatronics and Robotics	2	0	2	4	5	9	1			1	MMEHSE03	5
4	Micro Mechatronics	2	0	2	4	5	9	1				MMEHSE04	5
5	Elective subject ** (List 1)	2	0	1	3	4	7		1			MMEHSE05	5
6	Elective subject ** (List 2)	2	0	1	3	4	7		1			MMEHSE06	5
<b>Total</b>		<b>12</b>	<b>0</b>	<b>10</b>	<b>22</b>	<b>28</b>	<b>50</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>1</b>		<b>30</b>

## SEMESTER II

7	Intelligent systems in mechatronics	2	0	2	4	5	9	1				MMEHSE07	5
8	Management of mechatronic systems and industrial networks	2	0	2	4	5	9	1				MMEHSE08	5
9	Elective subject ** (List 3)	2	0	2	4	4	8		1	1*		MMEHSE09	5
10	Elective subject ** (List 4)	2	0	2	4	4	8		1	1*		MMEHSE10	5
11	Elective subject ** (List 5)	2	0	2	4	4	8		1	1*		MMEHSE11	5
12	Elective subject ** (List 6)	2	0	2	4	4	8		1	1*		MMEHSE12	5
<b>Total</b>		<b>12</b>	<b>0</b>	<b>12</b>	<b>24</b>	<b>26</b>	<b>50</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>0</b>		<b>30</b>

## SEMESTER III

13	Diploma Project/Thesis	Public Defense										MMEHSE13	15
<b>Total</b>													<b>15</b>

**Notes:**

\*\*Subjects 5.1, 6.1, 9.1, 10.1, 11.1, 12.1 set up module *Mechatronic Systems in Discrete Mechanical Engineering*

\*\* Subjects 5.2, 6.2, 9.2, 10.2, 11.2, 12.2 set up module *Optical, Micromechanical and measuring Devices*

\* **Students develop one Course Project ad lib.**

Elective subjects (positions 5, 6, 9, 10, 11 и 12) are annually updated and approved by the Faculty of Mechanical Engineering Council.

**LISTS OF ELECTIVE SUBJECTS**

<b>List 1 ( Credits - 5)</b>		
1	Process control and manufacturing automation	MMEHSE5.1
2	Measuring systems I	MMEHSE5.2

<b>List 2 ( Credits - 5)</b>		
1	Assembly automation	MMEHSE6.1
2	Optic and laser devices	MMEHSE6.2

<b>List 3 ( Credits - 5)</b>		
1	Mechatronic Systems Implementation in Discrete Mechanical Engineering	MMEHSE9.1
2	Micromechanical Devices	MMEHSE9.2

<b>List 4 ( Credits - 5)</b>		
1	Motion Control in Mechatronic Systems	MMEHSE10.1
2	Precision and Reliability of Mechatronic Systems	MMEHSE10.2

<b>List 5 ( Credits - 5)</b>		
1	Computer Integrated Manufacturing	MMEHSE11.1
2	Measuring Systems II	MMEHSE11.2

<b>List 6 ( Credits - 5)</b>		
1	Non destructive control	MMEHSE12.1
2	Composite materials	MMEHSE12.2